What is claimed is:

1. A motor comprising:

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a rotor having a shaft;

a sleeve bearing in contact with the rotor shaft, the sleeve bearing being fixedly secured to the stator; and

a movable support member axially supporting the shaft, the movable support member being movable relative to the shaft.

- 2. The motor as defined by claim 1 further including a housing at least in part encasing the stator, the housing forming a recess for supporting the movable support member.
- 3. The motor as defined by claim 1 wherein the movable support member is a spherical member.
- 4. The motor as defined by claim 3 wherein the spherical member is a ball bearing.
 - 5. The motor as defined by claim 3 wherein the recess has a depth less than a radius of the spherical member.
- 25 6. The motor as defined by claim 1 further including a retaining washer about the shaft.

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- 7. The motor as defined by claim 6 wherein the shaft has a lower end, the retaining washer being located between the lower end of the shaft and the sleeve bearing.
- 5 8. The motor as defined by claim 1 further including a rotor hub coupled to the shaft, the rotor hub being spaced from the sleeve bearing.
 - 9. The motor as defined by claim 1 wherein the rotor includes a rotor magnet, the rotor magnet being oriented with the stator to bias the rotor toward the movable support member.
 - 10. The motor as defined by claim 1 wherein the movable support member contacts the shaft when the motor is right side up and when the motor is upside down.
 - 11. The motor as defined by claim 1 wherein the center of gravity of the rotor coincides with an opening in the sleeve bearing that accommodates the shaft.
 - 12. A motor comprising:
 - a stator having a sleeve bearing;
 - a rotor having a hub mounted to a shaft that is rotatably coupled with the sleeve bearing, the shaft having a coupled retaining member; and
 - a movable support member supporting the weight of the rotor to prevent contact between the retaining member and the hub.
 - 13. The motor as defined by claim 12 further including a housing about the stator, the housing forming a recess for retaining the support member.

- 14. The motor as defined by claim 12 wherein the retaining member is a washer secured to the shaft.
- 15. The motor as defined by claim 12 wherein the rotor includes blades for5 moving air.
 - 16. The motor as defined by claim 12 wherein the rotor includes a rotor magnet that normally biases the rotor toward the support member.
- 17. The motor as defined by claim 12 wherein the support member has a spherical shape.
 - 18. The motor as defined by claim 12 wherein the stator has DC commutation circuitry.
 - 19. The motor as defined by claim 12 wherein the center of gravity of the rotor coincides with an opening in the sleeve bearing that accommodates the shaft.
 - 20. A motor comprising:
- 20 a stator;

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- a rotor having a shaft;
- a sleeve bearing in contact with the rotor shaft, the sleeve bearing being fixedly secured to the stator; and
- movable means for axially supporting the shaft, the movable means being movable relative to the shaft.
 - 21. The motor as defined by claim 20 wherein the movable means for axially supporting includes a ball bearing.

- 22. The motor as defined by claim 20 further including a housing encasing the stator, the housing forming a recess for supporting the movable means for axially supporting.
- 23. The motor as defined by claim 20 wherein the shaft has an attached rotor hub that is spaced from the sleeve bearing.
- 24. The motor as defined by claim 20 wherein the rotor includes means for biasing the rotor toward the movable means for axially supporting.
 - 25. The motor as defined by claim 20 wherein the center of gravity of the rotor coincides with an opening in the sleeve bearing that accommodates the shaft.

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